

Notice of Allowability

Application No.

09/941,387

Examiner

Sonny TRINH

Applicant(s)

ONODERA ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to terminal disclaimer filed 07/23/04.
2. ☒ The allowed claim(s) is/are 30-41.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 09/033,016.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification:

On page 1, line 2, after the date "March 2, 1998", insert "--" , now U.S. Patent Number 6,330,441 B1"--.

END OF EXAMINER'S AMENDMENT

Terminal Disclaimer

2. The terminal disclaimer filed on 07/23/04 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent Number 6,330,441 B1 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

3. **Claims 30-41** are allowed. Claims 30,35,40-41,31,36,32,37,33,38,34,39 have been re-numbered to 1-12 respectively.

The following is an examiner's statement of reasons for allowance:

The present invention is directed to a communication system which requires a reasonable sized PBX (Private Branch eXchange) switchboard not a massive PBX switchboard and the communication system assures a person of initiating a call or answering a call when he is not on his private line. Further, the communication system assists to communicate with other persons who are out of a network. When all communication channels of one radio base station are busy, wherein the radio base station is transmitting control signals to a mobile radiotelephone, the communication system provides a seamless communication by using a communication channel of another radio base station in a same service area whenever the communication channel of the radio base station is vacant.

The instant application is directed to an non-obvious improvement over the invention described in Pat. No. 6,151,492 to Melin. The improvement comprises a communication control device having call control function, which controls communications between said radio base station and said terminal equipment, wherein said communication control device is connected to said radio base station and said terminal equipment through said network, and wherein said communication control device includes communication control means for managing a communication path

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between said radio base station and said terminal equipment, and wherein said radio base station and said terminal equipment transmits and receives a voice data respectively between them through said network when a communication path between said radio base station and said terminal equipment is established, and wherein said voice data transmitted between said radio base station and said terminal equipment does not pass through said communication control device as specified in **claim 30**.

Similarly, the improvement in **claim 31** comprises a communication control device having call control function, which controls communications between said radio base station and other terminal equipment having voice data processing function connected to said network, wherein said communication control device is connected to said radio base station through said network and said communication control device directs said radio base station to carry out call control, and wherein said communication control device includes communication control means for managing a communication path between said radio base station and said other terminal equipment, and wherein said radio base station and said other terminal equipment transmits and receives a voice data respectively between them through said network when a communication path between said radio base station and said other terminal equipment is established, and wherein said voice data transmitted between said radio base station and said other terminal equipment does not pass through said communication control device.

Similarly, the improvement in **claim 32** comprises a communication control device having call control function, which is connected to said radio base station and said analog circuit terminal equipment through said network, wherein said

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communication control device includes communication control means for managing a communication path between said radio base station and said analog circuit terminal equipment, and wherein said radio base station and said analog circuit terminal equipment transmits and receives a voice data respectively between them through said network when a communication path between said radio base station and said analog circuit terminal equipment is established, and wherein said voice data transmitted between said radio base station and said analog circuit terminal equipment does not pass through said communication control device; and voice data processor means for communicating between said radio base station and said analog circuit terminal equipment.

Regarding **claim 33**, the prior art of record also fail to show or fairly suggest a communication control device having call control function, which is connected to said radio base station and said ISDN terminal equipment through said network, wherein said communication control device includes communication control means for managing a communication path between said radio base station and said ISDN terminal equipment, and wherein said radio base station and said ISDN terminal equipment transmits and receives a voice data respectively between them through said network when a communication path between said radio base station and said ISDN terminal equipment is established, and wherein said voice data transmitted between said radio base station and said ISDN terminal equipment does not pass through said communication control device; and voice data processor means for communicating between said radio base station and said ISDN terminal equipment.

Regarding **claim 34**, the prior art of record also fail to show or fairly suggest at least one analog circuit terminal equipment, which is connected to said radio base station through said network and said analog circuit terminal equipment, has an interface for an analog telephone network and protocol conversion function of converting a protocol between a network protocol and an analog telephone network protocol, wherein said analog circuit terminal equipment includes second call control means for controlling calls; at least one ISDN terminal equipment which is connected to said radio base station and said analog circuit terminal equipment through said network, and said ISDN terminal equipment has an interface for an ISDN network, wherein said ISDN terminal equipment includes third call control means for controlling calls and protocol conversion function of converting a protocol between the network protocol and the ISDN protocol; a communication control device having call control function, which is connected to said radio base station and said analog circuit terminal equipment and said ISDN terminal equipment through said network, wherein said communication control device includes communication control means for managing a communication path among said radio base station and said analog circuit terminal equipment and said ISDN terminal equipment, and wherein said radio base station and said analog circuit terminal equipment and said ISDN terminal equipment transmits and receives a voice data respectively among them through said network when a communication path among said radio base station and said analog circuit terminal equipment and said ISDN terminal equipment is established, and wherein said voice data transmitted among said radio base station and said analog circuit terminal equipment and said ISDN terminal

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equipment does not pass through said communication control device; and voice data processor means for communicating among said radio base station and said analog circuit terminal equipment and said ISDN terminal equipment.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonny TRINH whose telephone number is 571-272-7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward URBAN can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

3/14/06


SONNY TRINH
PRIMARY EXAMINER